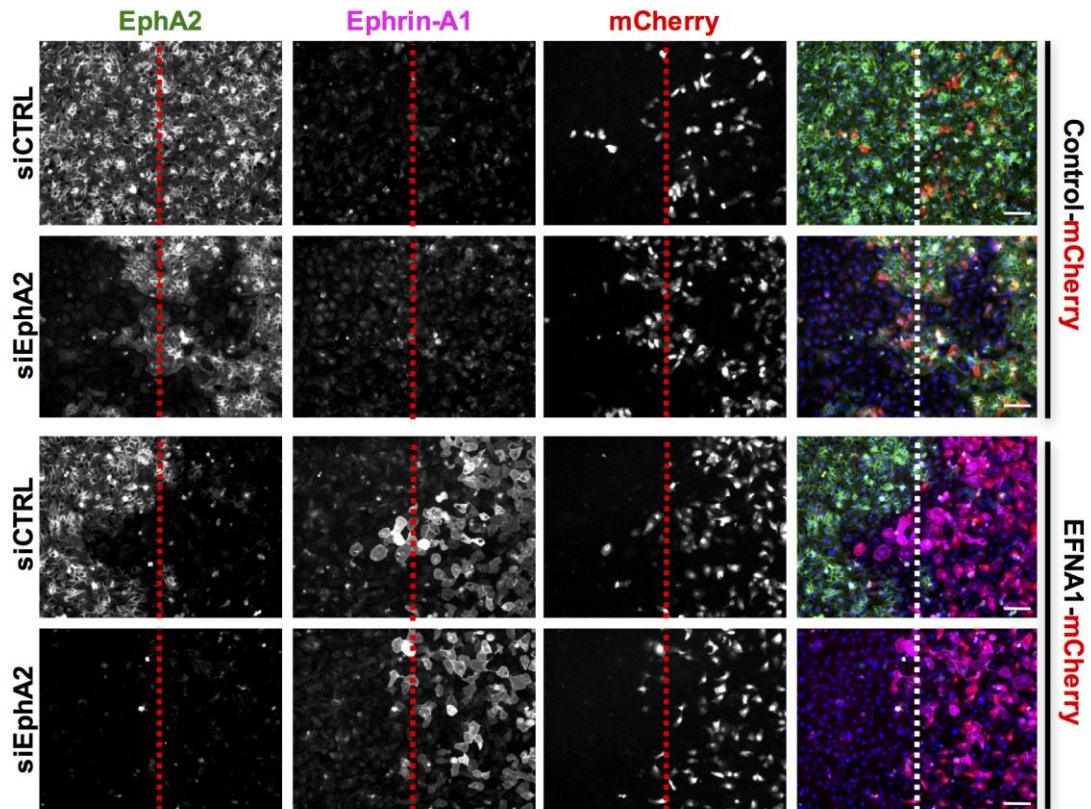


Supplementary Movie Legend and Supplementary Figure

Supplementary Movie: Ephrin-A1 directs the migration of EphA2-expressing corneal epithelial cell compartments.

Ephrin-A1 expressing hTCEpi cells and control cells were differentially labeled with fluorescent cell trackers and seeded into discrete culture compartments of a silicone chamber (Ibidi) to mimic their limbal and corneal expression patterns, respectively. After removal of the silicone chamber, ephrin-A1 and EphA2 hTCEpi cells (Control) confronting one another was recorded for 48 hrs using a BioStation CT (Nikon) imaging system. Supplementary Movie 1: Control-Green vs Control-Red. Supplementary Movie 2: Control-Green vs Ephrin-A1-Red.



Supplementary Figure 1

Supplementary Figure: EphA2 and Ephrin-A1 expression in co-cultures following EphA2 knockdown.

Control or ephrin-A1 expressing cells were co-transduced to express mCherry (Control-mCherry or EFNA1-mCherry, respectively) in order to differentially mark these cell populations. Immunostaining of EphA2 (green) and Ephrin-A1 (magenta) 48 hrs after removal of the silicone divider in Control-mCherry or EFNA1-mCherry cells confronted by control cells transfected with siCTRL or siEphA2. Dotted lines indicate the boundary between the two different cell populations 48 hrs after initiation of confrontation. Scale bar= 80µm.